

Listing of Claims:

Please cancel claims 1-24, and add new claims 25-132.

- 1 **Claim 25.** (New) A method of providing phosphorus to a plant, said method comprising:
- 2 (a) mixing water, at least one organic acid or salt thereof, and a formulation
- 3 comprising at least one phosphorous-containing acid or salt thereof which is
- 4 present in said formulation in an amount of from about 30 to about 40 percent
- 5 (wt/vol), thus forming a phosphorus fertilizer that is buffered, substantially
- 6 fully solubilized, and has a foliage-acceptable pH for phosphorus uptake; and
- 7 (b) applying said phosphorus fertilizer to the foliage of said plant.
- 1 **Claim 26.** (New) The method of claim 25, wherein said mixing comprises:
- 2 (1) diluting said formulation with said water; and
- 3 (2) mixing said organic acid or salt thereof and the product of step (1).
- 1 **Claim 27.** (New) The method of claim 25, wherein said mixing comprises:
- 2 (1) diluting said organic acid or salt thereof with said water; and
- 3 (2) mixing said formulation and the product of step (1).
- 1 **Claim 28.** (New) The method of claim 25, wherein said mixing comprises:
- 2 (1) diluting said organic acid or salt thereof with said water;
- 3 (2) diluting said formulation with said water; and
- 4 (3) mixing the product of step (1) and the product of step (2).
- 1 **Claim 29.** (New) The method of claim 25, wherein said phosphorus fertilizer has a pH of
- 2 5.0 to 7.0.
- 1 **Claim 30.** (New) The method of claim 25, wherein said mixing further comprises:
- 2 adjusting the pH of said phosphorus fertilizer to between about 5.0 and about 7.0.

1 **Claim 31.** (New) A method of providing phosphorus to a plant, said method comprising:

2 (a) mixing water, at least one organic acid or salt thereof, and a formulation
3 comprising at least one phosphorous-containing acid or salt thereof which is
4 present in said formulation in an amount of about 30 percent (wt/vol) or
5 greater, thus forming a phosphorus fertilizer that is buffered, substantially
6 fully solubilized, and has a foliage-acceptable pH for phosphorus uptake; and

7 (b) applying said phosphorus fertilizer to the foliage of said plant.

1 **Claim 32.** (New) The method of claim 31, wherein said mixing comprises:

2 (1) diluting said formulation with said water; and

3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 33.** (New) The method of claim 31, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water; and

3 (2) mixing said formulation and the product of step (1).

1 **Claim 34.** (New) The method of claim 31, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water;

3 (2) diluting said formulation with said water; and

4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 35.** (New) The method of claim 31, wherein said phosphorus fertilizer has a pH of
2 5.0 to 7.0.

1 **Claim 36.** (New) The method of claim 31, wherein said mixing further comprises:

2 adjusting the pH of said phosphorus fertilizer to between about 5.0 and about 7.0.

1 **Claim 37.** (New) A method of providing phosphorus to a plant, said method comprising:

(a) mixing water, at least one organic acid or salt thereof, and a formulation comprising at least one phosphorous-containing acid or salt thereof, wherein said formulation comprises phosphorus in an amount equivalent to from about 0.30 kg/L to about 0.40 kg/L P_2O_5 , thus forming a phosphorus fertilizer that is buffered, substantially fully solubilized, and has a foliage-acceptable pH for phosphorus uptake; and

(b) applying said phosphorus fertilizer to the foliage of said plant.

Claim 38. (New) The method of claim 37, wherein said mixing comprises:

(1) diluting said formulation with said water; and

(2) mixing said organic acid or salt thereof and the product of step (1).

Claim 39. (New) The method of claim 37, wherein said mixing comprises:

(1) diluting said organic acid or salt thereof with said water; and

(2) mixing said formulation and the product of step (1).

Claim 40. (New) The method of claim 37, wherein said mixing comprises:

(1) diluting said organic acid or salt thereof with said water;

(2) diluting said formulation with said water; and

(3) mixing the product of step (1) and the product of step (2).

Claim 41. (New) The method of claim 37, wherein said phosphorus fertilizer has a pH of 5.0 to 7.0.

Claim 42. (New) The method of claim 37, wherein said mixing further comprises:

adjusting the pH of said phosphorus fertilizer to between about 5.0 and about 7.0.

Claim 43. (New) A method of providing phosphorus to a plant, said method comprising:

(a) mixing water, at least one organic acid or salt thereof, and a formulation comprising at least one phosphorous-containing acid or salt thereof, wherein

said formulation comprises phosphorus in an amount equivalent to about 0.30 kg/L or greater P_2O_5 , thus forming a phosphorus fertilizer that is buffered, substantially fully solubilized, and has a foliage-acceptable pH for phosphorus uptake; and

(b) applying said phosphorus fertilizer to the foliage of said plant.

Claim 44. (New) The method of claim 43, wherein said mixing comprises:

(1) diluting said formulation with said water; and

(2) mixing said organic acid or salt thereof and the product of step (1).

Claim 45. (New) The method of claim 43, wherein said mixing comprises:

(1) diluting said organic acid or salt thereof with said water; and

(2) mixing said formulation and the product of step (1).

Claim 46. (New) The method of claim 43, wherein said mixing comprises:

(1) diluting said organic acid or salt thereof with said water;

(2) diluting said formulation with said water; and

(3) mixing the product of step (1) and the product of step (2).

Claim 47. (New) The method of claim 43, wherein said phosphorus fertilizer has a pH of 5.0 to 7.0.

Claim 48. (New) The method of claim 43, wherein said mixing further comprises:

adjusting the pH of said phosphorus fertilizer to between about 5.0 and about 7.0.

Claim 49. (New) A method of providing phosphorus to a plant, said method comprising:

(a) mixing water, at least one organic acid or salt thereof, and a formulation comprising at least one phosphite-containing compound, wherein said formulation comprises phosphorus in an amount equivalent to about 0.30 kg/L or greater P_2O_5 , thus forming a phosphite fertilizer that is buffered,

substantially fully solubilized, and has a foliage-acceptable pH for phosphorus uptake; and

(b) applying said phosphite fertilizer to the foliage of said plant.

Claim 50. (New) The method of claim 49, wherein said mixing comprises:

(1) diluting said formulation with said water; and

(2) mixing said organic acid or salt thereof and the product of step (1).

Claim 51. (New) The method of claim 49, wherein said mixing comprises:

(1) diluting said organic acid or salt thereof with said water; and

(2) mixing said formulation and the product of step (1).

Claim 52. (New) The method of claim 49, wherein said mixing comprises:

(1) diluting said organic acid or salt thereof with said water;

(2) diluting said formulation with said water; and

(3) mixing the product of step (1) and the product of step (2).

Claim 53. (New) The method of claim 49, wherein said phosphite fertilizer has a pH of 5.0 to 7.0.

Claim 54. (New) The method of claim 49, wherein said mixing further comprises:

adjusting the pH of said phosphite fertilizer to between about 5.0 and about 7.0.

Claim 55. (New) A method of providing phosphorus to a plant, said method comprising:

(a) mixing water, at least one organic acid or salt thereof, and a formulation

comprising at least one phosphite-containing compound, wherein said

formulation comprises phosphorus in an amount equivalent to from about 0.30

kg/L to 0.40 kg/L or greater P_2O_5 , thus forming a phosphorus fertilizer that is

buffered, substantially fully solubilized, and has a foliage-acceptable pH for

phosphorus uptake; and

8 (b) applying said phosphite fertilizer to the foliage of said plant.

1 **Claim 56.** (New) The method of claim 55, wherein said mixing comprises:

2 (1) diluting said formulation with said water; and

3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 57.** (New) The method of claim 55, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water; and

3 (2) mixing said formulation and the product of step (1).

1 **Claim 58.** (New) The method of claim 55, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water;

3 (2) diluting said formulation with said water; and

4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 59.** (New) The method of claim 55, wherein said phosphite fertilizer has a pH of 5.0
2 to 7.0.

1 **Claim 60.** (New) The method of claim 55, wherein said mixing further comprises:

2 adjusting the pH of said phosphite fertilizer to between about 5.0 and about 7.0.

1 **Claim 61.** (New) A method of providing phosphorus to a plant, said method comprising:

2 (a) mixing water, at least one organic acid or salt thereof, and a formulation

3 comprising at least one phosphite-containing compound, wherein said

4 formulation comprises phosphorus in an amount equivalent to about 0.30 kg/L

5 or greater P_2O_5 , thus forming a phosphite fertilizer that is buffered,

6 substantially fully solubilized, and has a foliage-acceptable pH for phosphorus

7 uptake; and

8 (b) applying said phosphite fertilizer to the foliage of said plant.

1 **Claim 62.** (New) The method of claim 61, wherein said mixing comprises:

2 (1) diluting said formulation with said water; and

3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 63.** (New) The method of claim 61, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water; and

3 (2) mixing said formulation and the product of step (1).

1 **Claim 64.** (New) The method of claim 61, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water;

3 (2) diluting said formulation with said water; and

4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 65.** (New) The method of claim 61, wherein said phosphite fertilizer has a pH of 5.0
2 to 7.0.

1 **Claim 66.** (New) The method of claim 61, wherein said mixing further comprises:

2 adjusting the pH of said phosphite fertilizer to between about 5.0 and about 7.0.

1 **Claim 67.** (New) A method of providing phosphorus to a plant, comprising:

2 (a) mixing water, at least one organic acid or salt thereof, and at least one

3 formulation comprising a phosphorous-containing acid, wherein said

4 phosphorous-containing acid is selected from the group consisting of

5 phosphorous acid, hypophosphorous acid, polyphosphorous acid,

6 polyhypophosphorous acid, and salts thereof, thus forming a phosphorus

7 fertilizer with a pH less than about 2.5; and

8 (b) applying said phosphorus fertilizer, through an irrigation system, to soil near
9 said plant.

1 **Claim 68.** (New) The method of claim 67, wherein said mixing comprises:

2 (1) diluting said formulation with said water; and

3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 69.** (New) The method of claim 67, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water; and

3 (2) mixing said formulation and the product of step (1).

1 **Claim 70.** (New) The method of claim 67, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water;

3 (2) diluting said formulation with said water; and

4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 71.** (New) A method of providing phosphorus to a plant, comprising:

2 (a) mixing water, at least one organic acid or salt thereof, and at least one

3 formulation comprising a phosphorous-containing acid, wherein said

4 phosphorous-containing acid is selected from the group consisting of

5 phosphorous acid, hypophosphorous acid, polyphosphorous acid,

6 polyhypophosphorous acid, and salts thereof, and wherein said phosphorous-

7 containing acid or salt thereof is present in said formulation in an amount of

8 about 30 percent or greater (wt/vol), thus forming a phosphorus fertilizer with

9 a pH less than about 2.5; and

10 (b) applying said phosphorus fertilizer, through an irrigation system, to soil near

11 said plant.

1 **Claim 72.** (New) The method of claim 71, wherein said mixing comprises:

2 (1) diluting said formulation with said water; and

3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 73.** (New) The method of claim 71, wherein said mixing comprises:

(1) diluting said organic acid or salt thereof with said water; and

(2) mixing said formulation and the product of step (1).

Claim 74. (New) The method of claim 71, wherein said mixing comprises:

(1) diluting said organic acid or salt thereof with said water;

(2) diluting said formulation with said water; and

(3) mixing the product of step (1) and the product of step (2).

Claim 75. (New) A method of providing phosphorus to a plant, comprising:

(a) mixing water, at least one organic acid or salt thereof, and at least one formulation comprising a phosphorous-containing acid, wherein said phosphorous-containing acid is selected from the group consisting of phosphorous acid, hypophosphorous acid, polyphosphorous acid, polyhypophosphorous acid, and salts thereof, and wherein said phosphorous-containing acid or salt thereof is present in said formulation in an amount of between about 30 percent and 46 percent (wt/vol), thus forming said phosphorus fertilizer with a pH less than 2.5; and

(b) applying said phosphorus fertilizer, through an irrigation system, to soil near said plant.

Claim 76. (New) The method of claim 75, wherein said mixing comprises:

(1) diluting said formulation with said water; and

(2) mixing said organic acid or salt thereof and the product of step (1).

Claim 77. (New) The method of claim 75, wherein said mixing comprises:

(1) diluting said organic acid or salt thereof with said water; and

(2) mixing said formulation and the product of step (1).

1 **Claim 78.** (New) The method of claim 75, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water;

3 (2) diluting said formulation with said water; and

4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 79.** (New) A method of making a phosphorus fertilizer, said method comprising:

2 (a) mixing water, at least one organic acid or salt thereof, and a formulation
3 comprising at least one phosphorous-containing acid or salt thereof which is
4 present in said formulation in an amount of from about 30 to about 40 percent
5 (wt/vol), thus forming said phosphorus fertilizer, wherein said phosphorus
6 fertilizer is buffered, substantially fully solubilized, and has a foliage-
7 acceptable pH for phosphorus uptake.

1 **Claim 80.** (New) The method of claim 79, wherein said mixing comprises:

2 (1) diluting said formulation with said water; and

3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 81.** (New) The method of claim 79, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water; and

3 (2) mixing said formulation and the product of step (1).

1 **Claim 82.** (New) The method of claim 79, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water;

3 (2) diluting said formulation with said water; and

4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 83.** (New) The method of claim 79, wherein said phosphorus fertilizer has a pH of
2 5.0 to 7.0.

1 **Claim 84.** (New) The method of claim 79, wherein said mixing further comprises:
2 adjusting the pH of said phosphorus fertilizer to between about 5.0 and about 7.0.

1 **Claim 85.** (New) A method of making a phosphorus fertilizer, said method comprising:
2 (a) mixing water, at least one organic acid or salt thereof, and a formulation
3 comprising at least one phosphorous-containing acid or salt thereof which is
4 present in said formulation, in an amount of about 30 percent (wt/vol) or
5 greater, thus forming said phosphorus fertilizer, wherein said phosphorus
6 fertilizer is buffered, substantially fully solubilized, and has a foliage-
7 acceptable pH for phosphorus uptake.

1 **Claim 86.** (New) The method of claim 85, wherein said mixing comprises:
2 (1) diluting said formulation with said water; and
3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 87.** (New) The method of claim 85, wherein said mixing comprises:
2 (1) diluting said organic acid or salt thereof with said water; and
3 (2) mixing said formulation and the product of step (1).

1 **Claim 88.** (New) The method of claim 85, wherein said mixing comprises:
2 (1) diluting said organic acid or salt thereof with said water;
3 (2) diluting said formulation with said water; and
4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 89.** (New) The method of claim 85, wherein said phosphorus fertilizer has a pH of
2 5.0 to 7.0.

1 **Claim 90.** (New) The method of claim 85, wherein said mixing further comprises:
2 adjusting the pH of said phosphorus fertilizer to between about 5.0 and about 7.0.

1 **Claim 91.** (New) A method of making a phosphorus fertilizer, said method comprising:
2 (a) mixing water, at least one organic acid or salt thereof, and a formulation
3 comprising at least one phosphorous-containing acid or salt thereof, wherein
4 said formulation comprises phosphorus in an amount equivalent to from about
5 0.30 kg/L to about 0.40 kg/L P_2O_5 , thus forming said phosphorus fertilizer,
6 wherein said phosphorus fertilizer is buffered, substantially fully solubilized,
7 and has a foliage-acceptable pH for phosphorus uptake.

1 **Claim 92.** (New) The method of claim 91, wherein said mixing comprises:
2 (1) diluting said formulation with said water; and
3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 93.** (New) The method of claim 91, wherein said mixing comprises:
2 (1) diluting said organic acid or salt thereof with said water; and
3 (2) mixing said formulation and the product of step (1).

1 **Claim 94.** (New) The method of claim 91, wherein said mixing comprises:
2 (1) diluting said organic acid or salt thereof with said water;
3 (2) diluting said formulation with said water; and
4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 95.** (New) The method of claim 91, wherein said phosphorus fertilizer has a pH of
2 5.0 to 7.0.

1 **Claim 96.** (New) The method of claim 91, wherein said mixing further comprises:
2 adjusting the pH of said phosphorus fertilizer to between about 5.0 and about 7.0.

1 **Claim 97.** (New) A method of making a phosphorus fertilizer, said method comprising:
2 (a) mixing water, at least one organic acid or salt thereof, and a formulation
3 comprising at least one phosphorous-containing acid or salt thereof, wherein

4 said formulation comprises phosphorus in an amount equivalent to about 0.30
5 kg/L or greater P_2O_5 , thus forming said phosphorus fertilizer, wherein said
6 phosphorus fertilizer is buffered, substantially fully solubilized, and has a
7 foliage-acceptable pH for phosphorus uptake.

1 **Claim 98.** (New) The method of claim 97, wherein said mixing comprises:

2 (1) diluting said formulation with said water; and

3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 99.** (New) The method of claim 97, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water; and

3 (2) mixing said formulation and the product of step (1).

1 **Claim 100.** (New) The method of claim 97, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water;

3 (2) diluting said formulation with said water; and

4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 101.** (New) The method of claim 97, wherein said phosphorus fertilizer has a pH of
2 5.0 to 7.0.

1 **Claim 102.** (New) The method of claim 97, wherein said mixing further comprises:

2 adjusting the pH of said phosphorus fertilizer to between about 5.0 and about 7.0.

1 **Claim 103.** (New) A method of making a phosphite fertilizer, said method comprising:

2 (a) mixing water, at least one organic acid or salt thereof, and a formulation
3 comprising at least one phosphite-containing compound, wherein said
4 formulation comprises phosphorus in an amount equivalent to about 0.30 kg/L
5 or greater P_2O_5 , thus forming said phosphite fertilizer, wherein said phosphite

6 fertilizer is buffered, substantially fully solubilized, and has a foliage-
7 acceptable pH for phosphorus uptake.

1 **Claim 104.** (New) The method of claim 103, wherein said mixing comprises:

2 (1) diluting said formulation with said water; and

3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 105.** (New) The method of claim 103, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water; and

3 (2) mixing said formulation and the product of step (1).

1 **Claim 106.** (New) The method of claim 103, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water;

3 (2) diluting said formulation with said water; and

4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 107.** (New) The method of claim 103, wherein said phosphite fertilizer has a pH of 5.0
2 to 7.0.

1 **Claim 108.** (New) The method of claim 103, wherein said mixing further comprises:

2 adjusting the pH of said phosphite fertilizer to between about 5.0 and about 7.0.

1 **Claim 109.** (New) A method of making a phosphite fertilizer, said method comprising:

2 (a) mixing water, at least one organic acid or salt thereof, and a formulation

3 comprising at least one phosphite-containing compound, wherein said

4 formulation comprises phosphorus in an amount equivalent to from about 0.30

5 kg/L to 0.40 kg/L or greater P_2O_5 , thus forming said phosphite fertilizer,

6 wherein said phosphite fertilizer is buffered, substantially fully solubilized,

7 and has a foliage-acceptable pH for phosphorus uptake.

1 **Claim 110.** (New) The method of claim 109, wherein said mixing comprises:

- 2 (1) diluting said formulation with said water; and
3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 111.** (New) The method of claim 109, wherein said mixing comprises:

- 2 (1) diluting said organic acid or salt thereof with said water; and
3 (2) mixing said formulation and the product of step (1).

1 **Claim 112.** (New) The method of claim 109, wherein said mixing comprises:

- 2 (1) diluting said organic acid or salt thereof with said water;
3 (2) diluting said formulation with said water; and
4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 113.** (New) The method of claim 109, wherein said phosphite fertilizer has a pH of 5.0
2 to 7.0.

1 **Claim 114.** (New) The method of claim 109, wherein said mixing further comprises:
2 adjusting the pH of said phosphite fertilizer to between about 5.0 and about 7.0.

1 **Claim 115.** (New) A method of making a phosphite fertilizer, said method comprising:

- 2 (a) mixing water, at least one organic acid or salt thereof, and a formulation
3 comprising at least one phosphite-containing compound, wherein said
4 formulation comprises phosphorus in an amount equivalent to about 0.30 kg/L
5 or greater P_2O_5 , thus forming said phosphite fertilizer, wherein said phosphite
6 fertilizer is buffered, substantially fully solubilized, and has a foliage-
7 acceptable pH for phosphorus uptake.

1 **Claim 116.** (New) The method of claim 115, wherein said mixing comprises:

- 2 (1) diluting said formulation with said water; and
3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 117.** (New) The method of claim 115, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water; and

3 (2) mixing said formulation and the product of step (1).

1 **Claim 118.** (New) The method of claim 115, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water;

3 (2) diluting said formulation with said water; and

4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 119.** (New) The method of claim 115, wherein said phosphite fertilizer has a pH of 5.0
2 to 7.0.

1 **Claim 120.** (New) The method of claim 115, wherein said mixing further comprises:
2 adjusting the pH of said phosphite fertilizer to between about 5.0 and about 7.0.

1 **Claim 121.** (New) A method of making a phosphorus fertilizer with a pH less than 2.5,
2 comprising:

3 (a) mixing water, at least one organic acid or salt thereof, and at least one
4 formulation comprising a phosphorous-containing acid, wherein said
5 phosphorous-containing acid is selected from the group consisting of
6 phosphorous acid, hypophosphorous acid, polyphosphorous acid,
7 polyhypophosphorous acid, and salts thereof, thus forming said phosphorus
8 fertilizer.

1 **Claim 122.** (New) The method of claim 121, wherein said mixing comprises:

2 (1) diluting said formulation with said water; and

3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 123.** (New) The method of claim 121, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water; and

3 (2) mixing said formulation and the product of step (1).

1 **Claim 124.** (New) The method of claim 121, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water;

3 (2) diluting said formulation with said water; and

4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 125.** (New) A method of making a phosphorus fertilizer with a pH less than 2.5,
2 comprising:

3 (a) mixing water, at least one organic acid or salt thereof, and at least one

4 formulation comprising a phosphorous-containing acid, wherein said

5 phosphorous-containing acid is selected from the group consisting of

6 phosphorous acid, hypophosphorous acid, polyphosphorous acid,

7 polyhypophosphorous acid, and salts thereof, and wherein said phosphorous-

8 containing acid or salt thereof is present in said formulation in an amount of

9 about 30 percent or greater (wt/vol), thus forming said phosphorus fertilizer.

1 **Claim 126.** (New) The method of claim 125, wherein said mixing comprises:

2 (1) diluting said formulation with said water; and

3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 127.** (New) The method of claim 125, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water; and

3 (2) mixing said formulation and the product of step (1).

1 **Claim 128.** (New) The method of claim 125, wherein said mixing comprises:

2 (1) diluting said organic acid or salt thereof with said water;

3 (2) diluting said formulation with said water; and

4 (3) mixing the product of step (1) and the product of step (2).

1 **Claim 129.** (New) A method of making a phosphorus fertilizer with a pH less than 2.5,
2 comprising:

3 (a) mixing water, at least one organic acid or salt thereof, and at least one
4 formulation comprising a phosphorous-containing acid, wherein said
5 phosphorous-containing acid is selected from the group consisting of
6 phosphorous acid, hypophosphorous acid, polyphosphorous acid,
7 polyhypophosphorous acid, and salts thereof, and wherein said phosphorous-
8 containing acid or salt thereof is present in said formulation in an amount of
9 between about 30 percent and 46 percent (wt/vol), thus forming said
10 phosphorus fertilizer.

1 **Claim 130.** (New) The method of claim 129, wherein said mixing comprises:

- 2 (1) diluting said formulation with said water; and
3 (2) mixing said organic acid or salt thereof and the product of step (1).

1 **Claim 131.** (New) The method of claim 129, wherein said mixing comprises:

- 2 (1) diluting said organic acid or salt thereof with said water; and
3 (2) mixing said formulation and the product of step (1).

1 **Claim 132.** (New) The method of claim 129, wherein said mixing comprises:

- 2 (1) diluting said organic acid or salt thereof with said water;
3 (2) diluting said formulation with said water; and
4 (3) mixing the product of step (1) and the product of step (2).